IRRIGATION REHABILITATION PROGRAM

2007/2008

STATUS REPORT

Prepared by

Government of Alberta
Agriculture and Rural Development

Irrigation Secretariat

Lethbridge, Alberta
May 2009

ACKNOWLEDGEMENT

Don Gross of Alberta Agriculture and Rural Development's Water Resources Branch provided much of the information contained in this report as part of Mr. Gross' monitoring of the construction activities of the irrigation districts. We greatly appreciate and acknowledge the significant assistance provided by Mr. Gross in the completion of this report.

ABSTRACT

This annual Irrigation Rehabilitation Program (IRP) Status Report summarizes the expenditures and status of all IRP projects that were active during the construction period August 1, 2007 to July 31, 2008.

The IRP began in 1969 and is a cost shared program between Alberta Agriculture and Rural Development and Alberta's 13 irrigation districts. Since 1969 funding levels have varied between $600,000 and $32,000,000 per year. The 2007 funding allocations are shown in Table 1.

The provincial/irrigation district cost share ratio has varied since 1969, starting at 86% province - 14 % irrigation district, changing to 80% - 20% in 1994/95 and to 75% - 25% in 1995/96 and remains at that ratio today.

Irrigation Rehabilitation Financing Agreements are prepared annually between the Minister and each irrigation district. Projects must be approved by Irrigation Council prior to any project costs being paid for with cost shared funds, and all eligible project expenditures must be documented by Progress Certificates.

Circumstances may arise that require an irrigation district to change project priorities from time to time. As well, actual costs may differ from estimated costs because of various circumstances, i.e. poor working conditions due to weather, construction cost inflation, etc.

Information contained in this report was gathered from random monitoring (field visits) of project construction sites, records from the Water Resources Branch and the Irrigation Secretariat and information from irrigation district personnel.

The vast majority of IRP funding is provided to the districts according to an inter-district allocation formula. In addition, Special Funding was allocated for projects that particularly address critical needs and the desired outcomes of *Water for Life: Alberta's Strategy for Sustainability*. Those projects are identified in this report by an * before the IRP number.

TABLES

The following tables summarize the results of each district's activities for 2007/2008.

Table 1: **Irrigation Rehabilitation Program – Funding**

- Lists the IRP funding received by each district together with the district's share.

Table 2: **Irrigation Rehabilitation Program – Project Construction**

- Lists the IRP projects having substantial construction in each district with statistical data for each project.

Table 3: **Irrigation Rehabilitation Program – Summary of Funding and Expenditures**

- Lists each district's Major Works, Irrigation Capital Works and Planning Study expenditures, total funding allocation, and total expenditures. The expenditures are calculated from each district's progress certificates submitted for the construction period.

Table 4: **Irrigation Rehabilitation Program – Summary of Lengths and Type of Rehabilitation**

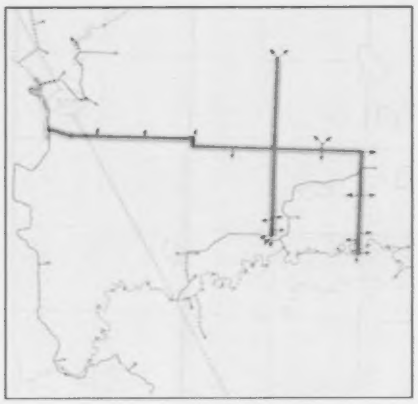
- Historical summary of total length and type of rehabilitation completed from 1969 to July 31, 2008.

Table 5: **Irrigation Rehabilitation Program – Summary of Rehabilitated Lengths**

- Lists the length of existing distribution systems rehabilitated in each district to July 31, 2007, the length of rehabilitation within the 2007/2008 construction period, and the total length to July 31, 2008.

AETNA IRRIGATION DISTRICT (AID)

During this reporting period the AID expended $30,879 of IRP cost shared funds on four projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. The one project with significant expenditures in 2007/2008 is listed below.



Project #2105, Lateral C10 Aetna Pipeline.

AID IRP Project Construction Summary

August 1, 2007 to July 31, 2008

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 07/08	% Completed to July 31/08	Liners (metres)	Pipe (metres)	Earth (metres)
2105	ICW	Lateral C10 Aetna Pipeline	2007 02	N/A	N/A	N/A	preliminary engineering		

BOW RIVER IRRIGATION DISTRICT (BRID)

During this reporting period the BRID expended $1,507,273 of IRP cost shared funds on fifteen projects. MW expenditures total $114,992 and ICW and PS expenditures total $1,392,281. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2007/2008 are listed below.

Project #2078, Lomond Lateral.
Before and After.

BRID IRP Project Construction Summary

August 1, 2007 to July 31, 2008

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 07/08	% Completed to July 31/08	Liners (metres)	Pipe (metres)	Earth (metres)
2078	MW	Lomond Lateral	2007 02	2007 10	100%	100%	560		3555
*2091	ICW	Flow Measurement 2007	2007 02	2007 05	35%	100%	complete 3 of 8 sites		
*2122	ICW	Flow Measurement & Automation 2008	2008 02	2008 05	50%	50%	complete 2 of 4 sites		

NOTE: * indicates Special Funding used towards this project

EASTERN IRRIGATION DISTRICT (EID)

During this reporting period the EID expended $5,989,104 of IRP cost shared funds on seven projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2007/2008 are listed below.

Project #2056, Lateral 02-16 Springhill.
1000 mm dia C80 pvc pipe.

Project #2056, Laterals 16 & 02-16.
Pipeline inlet with self-cleaning trash screen.

EID IRP Project Construction Summary

August 1, 2007 to July 31, 2008

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 07/08	% Completed to July 31/08	Liners (metres)	Pipe (metres)	Earth (metres)
2056	ICW	16 Springhill & 02-16 Springhill	2006 02	2007 10	100%	100%	1569	20283	2118
*2129	ICW	EID Flow Measurement, Automation (2008)	2008 02	2008 04	25%	25%	complete 1 of 4 sites		

NOTE: * indicates Special Funding used towards this project

LEAVITT IRRIGATION DISTRICT (LID)

During this reporting period, the LID expended $5,243 of IRP cost shared funds on two projects in the ICW category. The one project with significant construction in 2007/2008 is listed below.

Project #2101, Lateral K Pipeline Flow Measurement.

LID IRP Project Construction Summary
August 1, 2007 to July 31, 2008

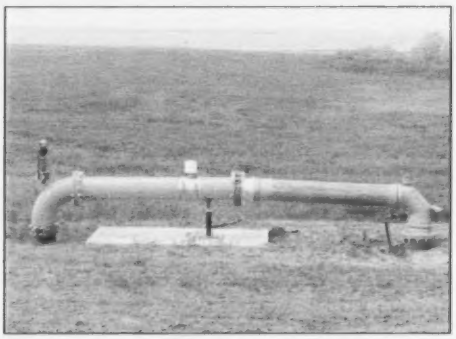
IRP #	ICW /MW /PS	Project Name	Date				Rehabilitation Completed		
			Project Approved	Construction Start	% Completed in 07/08	% Completed to July 31/08	Liners (metres)	Pipe (metres)	Earth (metres)
*2101	ICW	Lateral K Water Measurement	2007 02	2008 05	100%	100%	flow meter on pipeline		

NOTE: * indicates Special Funding used towards this project

LETHBRIDGE NORTHERN IRRIGATION DISTRICT (LNID)

During this reporting period the LNID expended $583,875 of cost shared funds on eight projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2007/2008 are listed below.

Project #1911, Keho/Barons Pipeline. Flow meters installed on 72 farm turnouts



Project #2142, Piyami Pressure Pipeline. Flow meters installed on 17 farm turnouts

LNID IRP Project Construction Summary
August 1, 2007 to July 31, 2008

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 07/08	% Completed to July 31/08	Liners (metres)	Pipe (metres)	Earth (metres)
*1911	ICW	Keho/Barons Irrigation Project	2002 12	2008 03	100%	100%	flow meters on farm turnouts		
*1971	ICW	Automation Project (LNID)	2003 02	2003 03	20%	55%	install two flow measurement sites		
*2142	ICW	On-Farm Pipeline Meters (Piyami)	2008 06	2008 03	100%	100%	flow meters on farm turnouts		

NOTE: * indicates Special Funding used towards this project

MAGRATH IRRIGATION DISTRICT (MID)

During this reporting period the MID expended $497,217 of IRP cost shared funds on two projects in the ICW category. The one project with significant construction in 2007/2008 is listed below.

Project #1983, Highline Pipeline.
750 mm dia C80 PVC pipe.

MID IRP Project Construction Summary
August 1, 2007 to July 31, 2008

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 07/08	% Completed to July 31/08	Liners (metres)	Pipe (metres)	Earth (metres)
1983	ICW	Highline Pipeline	2004 02	2006 09	20%	65%		1821	

MOUNTAIN VIEW IRRIGATION DISTRICT (MVID)

During this reporting period the MVID expended $7,831 of IRP funds on one project in the ICW category. Expenditures were for installation of a flow measurement device on an existing pipeline.

Project #2103, Highway 800 Pipeline.
Water measurement station.

MVID IRP Project Construction Summary

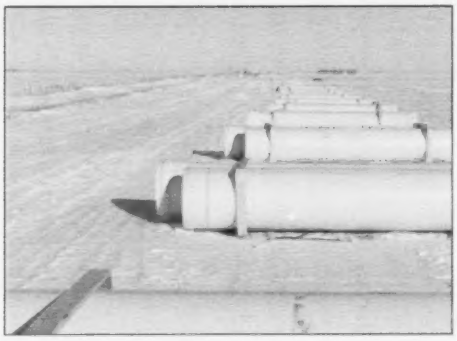
August 1, 2007 to July 31, 2008

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 07/08	% Completed to July 31/08	Liners (metres)	Pipe (metres)	Earth (metres)
*2103	ICW	Highway 800 Water Measurement	2007 02	2008 05	100%	100%	flow meter on pipeline		

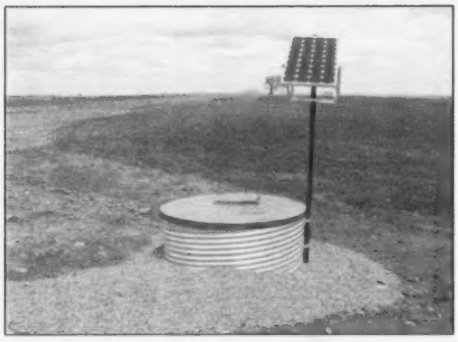
NOTE: * indicates Special Funding used towards this project

RAYMOND IRRIGATION DISTRICT (RID)

During this reporting period the RID expended $1,249,809 of IRP cost shared funds on two projects in the ICW category. The one project with significant construction in 2007/2008 is listed below.



Project #2066, Stirling #8.
Pipeline route.



Project #2066, Stirling #8.
Flow measurement device installed on completed pipeline.

RID IRP Project Construction Summary

August 1, 2007 to July 31, 2008

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 07/08	% Completed to July 31/08	Liners (metres)	Pipe (metres)	Earth (metres)
*2066	ICW	Stirling #8	2006 02	2007 11	70%	70%		5621	

NOTE: * indicates Special Funding used towards this project

ROSS CREEK IRRIGATION DISTRICT (RCID)

No funds were expended by the RCID during this reporting period.

St. Mary River Irrigation District (SMRID)

During this reporting period the SMRID expended $7,314,312 of IRP cost shared funds on nineteen projects. MW expenditures total $413,640 and ICW expenditures total $6,900,672. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2007/2008 are listed below.

Project #2112, Flow Measurement Project. Flow meters installed at nine sites throughout the district.

Project #2113, Lethbridge Lateral. New overshot gates installed on existing headgates.

SMRID IRP Project Construction Summary
August 1, 2007 to July 31, 2008

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 07/08	% Completed to July 31/08	Liners (metres)	Pipe (metres)	Earth (metres)
1862	ICW	North Lateral Gravel Armouring	2001 12	2002 10	9%	62%			1500
1878	ICW	Bow Island Lateral 10B	2001 08	2001 11	15%	83%		5072	
2051	ICW	West Medicine Hat Lateral 6	2006 05	2007 11	7%	7%		1425	
2052	ICW	Yellow Lake Lateral 4	2006 02	2007 10	17%	17%		3317	
2109	ICW	Main Canal Lateral 4	2007 09	2007 11	35%	35%		3155	
*2112	ICW	SMRID Flow Measurement Project	2007 11	2008 04	100%	100%	flow measurement at nine sites		
2113	MW	Lethbridge Lateral Headgates	2007 11	2008 02	100%	100%	install overshot gates		
								12969	1500

NOTE: * indicates Special Funding used towards this project

TABER IRRIGATION DISTRICT (TID)

During this reporting period the TID expended $1,385,284 of IRP cost shared funds on fourteen projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2007/2008 are listed below.

Project #2086, North Fincastle East Canal. Membrane liner with earth backfill.

Project #2086, North Fincastle East Canal. Completed rehab with armour slope protection.

TID IRP Project Construction Summary

August 1, 2007 to July 31, 2008

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 07/08	% Completed to July 31/08	Liners (metres)	Pipe (metres)	Earth (metres)
2076	ICW	Pipeline Drain Lines	2006 06	2006 04	8%	72%		456	
2085	ICW	Bountiful Coulee Pipeline	2007 02	2007 10	100%	100%		4320	
2086	ICW	North Fincastle East Canal	2007 02	2007 08	100%	100%	782		
*2089	ICW	Water Measurement	2007 08	2008 04	100%	100%	update four flow metering sites		
2114	ICW	Lateral 6 Barnwell	2008 02	2008 04	20%	20%		1300	
*2119	ICW	TID Flow Measurement (2008)	2008 02	2008 05	33%	33%	1 of 3 sites installed		
							782	6076	

NOTE: * indicates Special Funding used towards this project

UNITED IRRIGATION DISTRICT (UID)

During this reporting period the UID expended $956,657 of IRP cost shared funds on eight projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2007/2008 are listed below.

Project #2067, Lateral A7
Earth channel replaced with pvc pipeline.

UID IRP Project Construction Summary

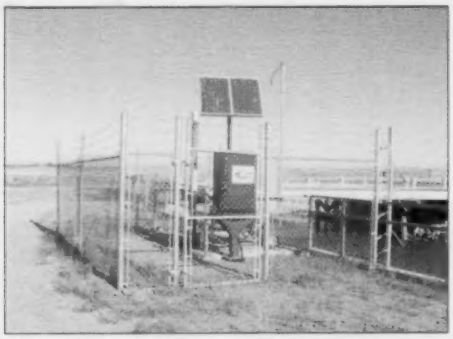
August 1, 2007 to July 31, 2008

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 07/08	% Completed to July 31/08	Liners (metres)	Pipe (metres)	Earth (metres)
2067	ICW	Lateral A7	2006 02	2007 08	100%	100%		5634	
*2096	ICW	Lateral D4 Return Flow Measurement	2007 02	2008 04	100%	100%	flow measurement site		
*2130	ICW	UID Inflow Metering Stations	2008 02	2008 05	50%	50%	flow measurement site		

NOTE: * indicates Special Funding used towards this project

WESTERN IRRIGATION DISTRICT (WID)

During this reporting period the WID expended $3,993,497 of IRP cost shared funds on ten projects. MW expenditures total $190,766 and ICW and PS expenditures total $3,802,731. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2007/2008 are listed below.



Project #2131, WID Flow Measurement, Automation, SCADA Project. Real time monitoring of channel flows linked to WID SCADA system.

WID IRP Project Construction Summary

August 1, 2007 to July 31, 2008

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 07/08	% Completed to July 31/08	Liners (metres)	Pipe (metres)	Earth (metres)
2069	ICW	Sublateral 81D2	2007 02	2007 10	100%	100%		12342	
2080	ICW	Springvale/Stahville	2006 08	2007 12	100%	100%		9148	
*2131	ICW	WID Flow Measurement, Automation, SCADA	2008 02	2008 05	40%	40%	3 of 8 sites installed		
								21490	

NOTE: * indicates Special Funding used towards this project

TABLES

2007

TABLE 1

IRRIGATION REHABILITATION PROGRAM FUNDING

The following table lists IRP grants received by each district together with each district's share.

IRRIGATION DISTRICT	SPECIAL FUNDING GRANT	SPECIAL FUNDING DISTRICT SHARE	BASE FUNDING GRANT	BASE FUNDING DISTRICT SHARE	TOTAL GRANT	TOTAL DISTRICT SHARE	TOTAL PROGRAM
AETNA	$0	$0	$67,867	$22,622	$67,867	$22,622	$90,489
BOW RIVER	$103,000	$0	$3,329,034	$1,109,678	$3,432,034	$1,109,678	$4,541,712
EASTERN	$200,000	$0	$4,942,354	$1,647,452	$5,142,354	$1,647,452	$6,789,806
LEAVITT	$0	$0	$95,977	$31,992	$95,977	$31,992	$127,969
LETH NORTHERN	$124,000	$0	$2,373,863	$791,288	$2,497,863	$791,288	$3,289,151
MAGRATH	$120,000	$0	$254,154	$84,718	$374,154	$84,718	$458,872
MOUNTAIN VIEW	$0	$0	$54,000	$18,000	$54,000	$18,000	$72,000
ROSS CREEK	$0	$0	$40,878	$13,626	$40,878	$13,626	$54,504
RAYMOND	$0	$0	$589,751	$196,584	$589,751	$196,584	$786,335
ST MARY RIVER	$160,000	$0	$5,618,713	$1,872,904	$5,778,713	$1,872,904	$7,651,617
TABER	$46,000	$0	$1,153,522	$384,507	$1,199,522	$384,507	$1,584,029
UNITED	$25,000	$0	$566,097	$188,699	$591,097	$188,699	$779,796
WESTERN	$2,222,000	$0	$1,913,790	$637,930	$4,135,790	$637,930	$4,773,720
TOTALS	**$3,000,000**	**$0**	**$21,000,000**	**$7,000,000**	**$24,000,000**	**$7,000,000**	**$31,000,000**

NOTE: Base Funding Grants are cost shared 75% provincial/25% irrigation district

Base Funding Grants are based on the Inter-District Allocation Formula:

- 50% of the funds allocated on the basis of the number of irrigation acres in each district, and
- 50% of the funds allocated on the basis of the infrastructure replacement cost of specified infrastructure in each district

IRRIGATION REHABILITATION PROGRAM
PROJECT CONSTRUCTION
AUGUST 1, 2007 to JULY 31, 2008

TABLE 2
1 of 2

DISTRICT	PROJECT #	ICW /MW /PS	PROJECT NAME	DATE				REHABILITATION COMPLETED		
				PROJECT APPROVAL	CONSTRUCTION START	% COMPLETED in 06/07	% COMPLETE to July 31/08	LINERS	PIPE	EARTH
								(lengths in metres)		
AID	2105	ICW	Lateral C10 Aetna Pipeline	2007 02	N/A	N/A	N/A	preliminary engineering		
BRID	2078	MW	Lomond Lateral	2007 02	2007 10	100%	100%	560		3555
BRID	2091	ICW	Flow Measurement 2007	2007 02	2007 05	35%	100%	complete 3 of 8 sites		
BRID	2122	ICW	Flow Measurement & Automation 2008	2008 02	2008 05	50%	50%	complete 2 of 4 sites		
EID	2056	ICW	16 Springhill & 02-16 Springhill Pipeline	2006 02	2007 10	100%	100%	1569	20283	2118
EID	2129	ICW	EID Flow Measurement/Automation (2008)	2008 02	2008 04	25%	25%	complete 1 of 4 sites		
LID	2102	ICW	Lateral K Water Measurement	2007 02	2008 05	100%	100%	flow meter on pipeline		
LNID	1911	ICW	Keho/Barons Irrigation Project	2002 12	2008 03	100%	100%	flow meters on turnouts		
LNID	1971	ICW	Automation Project (LNID)	2003 02	2003 03	20%	55%	two measurement sites		
LNID	2142	ICW	On-Farm Pipeline Meters (Piyami)	2008 06	2008 03	100%	100%	flow meters on turnouts		
MID	1983	ICW	Highline Pipeline	2004 02	2006 09	20%	65%		1821	
MVID	2103	ICW	Highway 800 Water Measurement	2007 02	2008 05	100%	100%	flow meter on pipeline		
RID	2066	ICW	Stirling #8 Pipeline	2006 02	2007 11	70%	70%		5621	
SMRID	1862	ICW	North Lateral Gravel Armouring	2001 12	2002 10	9%	62%			1500
SMRID	1878	ICW	Bow Island Lateral 10B	2001 08	2001 11	15%	83%		5072	
SMRID	2051	ICW	West Medicine Hat Lateral 6	2006 05	2007 11	7%	7%		1425	
SMRID	2052	ICW	Yellow Lake Lateral 4	2006 02	2007 10	17%	17%		3317	
SMRID	2109	ICW	Main Canal Lateral 4	2007 09	2007 11	35%	35%		3155	

IRRIGATION REHABILITATION PROGRAM
PROJECT CONSTRUCTION
AUGUST 1, 2007 to JULY 31, 2008

TABLE 2
2 of 2

DISTRICT	PROJECT #	ICW /MW /PS	PROJECT NAME	DATE				REHABILITATION COMPLETED		
				PROJECT APPROVAL	CONSTRUCTION START	% COMPLETED in 06/07	% COMPLETE to July 31/07	LINERS	PIPE	EARTH
								(lengths in metres)		
SMRID	2112	ICW	SMRID Flow Measurement Project	2007 11	2008 04	100%	100%	nine sites		
SMRID	2113	MW	Lethbridge Lateral Headgates	2007 11	2008 02	100%	100%	overshot gates		
TID	2076	ICW	Pipeline Drain Lines	2006 06	2006 04	8%	72%		456	
TID	2085	ICW	Bountiful Coulee Pipeline	2007 02	2007 10	100%	100%		4320	
TID	2086	ICW	North Fincastle East Canal	2007 02	2007 08	100%	100%	782		
TID	2089	ICW	Water Measurement	2007 08	2008 04	100%	100%	update four sites		
TID	2114	ICW	Lateral 6 Barnwell	2008 02	2008 04	20%	20%		1300	
TID	2119	ICW	TID Flow Measurement (2008)	2008 02	2008 05	33%	33%	install 1 of 3 sites		
UID	2067	ICW	Lateral A7 Pipeline	2006 02	2007 08	100%	100%		5634	
UID	2096	ICW	Lateral D4 Return Flow Measurement	2007 02	2008 04	100%	100%	flow measurement site		
UID	2130	ICW	UID Inflow Metering Stations	2008 02	2008 05	50%	50%	flow measurement site		
WID	2069	ICW	Sublateral 81D2 Pipeline	2007 02	2007 10	100%	100%		12342	
WID	2080	ICW	Springvale/Stahville	2006 08	2007 12	100%	100%		9148	
WID	2131	ICW	WID Flow Measurement, Automation, SCADA	2008 02	2008 05	40%	40%	install 3 of 8 sites		
								2911	73894	7173
								TOTAL	83,978	

IRRIGATION REHABILITATION PROGRAM
SUMMARY OF FUNDING AND EXPENDITURES
AUGUST 1, 2007 to JULY 31, 2008

TABLE 3

DISTRICT	2007 TOTAL FUNDING GOV'T & DIST SHARE	MW EXPENDITURES	ICW + PS EXPENDITURES	TOTAL EXPENDITURES
AID	$90,489	$0	$30,879	$30,879
BRID	$4,541,712	$114,992	$1,392,281	$1,507,273
EID	$6,789,806	$0	$5,989,104	$5,989,104
LID	$127,969	$0	$5,243	$5,243
LNID	$3,289,151	$0	$583,876	$583,876
MID	$458,872	$0	$497,217	$497,217
MVID	$72,000	$0	$7,831	$7,831
RID	$786,335	$0	$1,249,809	$1,249,809
RCID	$54,504	$0	$0	$0
SMRID	$7,651,617	$413,640	$6,900,672	$7,314,312
TID	$1,584,029	$0	$1,385,284	$1,385,284
UID	$779,796	$0	$956,657	$956,657
WID	$4,773,720	$190,766	$3,802,731	$3,993,497
TOTALS	**$31,000,000**	**$719,398**	**$22,801,584**	**$23,520,982**

NOTE:
(1) The total expenditures do not equal the total program funding as construction may occur in a different year (or years) than the year the funds were allocated.
(2) Special Funding is included (if any).
(3) Some districts accrue funds to construct a larger project in the future.
(4) Expenditures are categorized as either:
MW (Major Works) - includes storage reservoirs and dams or conveyance works and seepage control where the design capacity is 6 m^3/s or greater,
ICW (Irrigation Capital Works) - all other irrigation district infrastructure, or
PS (Planning Studies) - studies and digital or photographic imagery used in an irrigation district's overall rehabilitation planning.
(5) AID, LID and MVID did work in 2007/08 but cost shared funds were not expended until after July 31, 2008.

IRRIGATION REHABILITATION PROGRAM
SUMMARY OF LENGTH and TYPE OF REHABILITATION
1969 to JULY 31, 2008

TABLE 4

	CONCRETE LINING (km)	MEMBRANE LINERS (km)	PIPELINES (km)	EARTH CANALS (km)	TOTALS (km)	OPEN DRAINS (km)
69/80	219.14	36.07	83.41	211.30	549.92	205.85
80/81	20.04	19.50	24.18	73.19	136.91	41.16
81/82	13.12	18.50	30.27	45.78	107.67	72.89
82/83	15.52	29.13	97.63	103.98	246.26	36.02
83/84	7.01	56.63	56.48	106.52	226.64	16.33
84/85	7.05	48.92	53.09	87.02	196.08	26.68
85/86	7.71	28.08	94.39	94.93	225.11	7.05
86/87	4.58	32.44	85.61	75.00	197.63	15.58
87/88	2.79	37.80	49.75	55.45	145.79	12.83
88/89	0.04	43.16	60.68	47.27	151.15	47.08
89/90	0.00	18.96	54.27	49.03	122.26	3.12
90/91	0.00	34.09	64.54	51.49	150.12	4.21
91/92	0.00	15.86	95.59	43.30	154.75	3.18
92/93	0.00	11.20	76.44	28.33	115.97	7.64
93/94	0.00	26.32	78.22	75.29	179.83	8.58
94/95	0.00	23.31	69.97	15.31	108.59	8.44
95/96	0.00	18.63	92.62	23.28	134.53	8.58
96/97	0.00	11.85	138.74	26.24	176.83	0.00
97/98	0.00	23.71	88.52	16.87	129.10	0.29
98/99	0.00	21.68	86.53	16.57	124.78	0.00
99/00	0.00	11.00	116.57	24.76	152.33	4.59
00/01	0.00	11.65	91.22	9.15	112.02	0.15
01/02	0.00	1.37	96.40	14.55	112.32	0.00
02/03	0.00	4.20	129.31	18.56	152.07	1.70
03/04	0.00	6.37	157.23	8.72	172.32	2.45
04/05	0.00	15.74	97.62	12.94	126.30	1.42
05/06	0.00	1.24	117.86	16.02	135.12	1.42
06/07	0.00	0.70	123.11	13.25	137.06	0.00
07/08	0.00	2.91	73.89	7.17	83.97	0.00
TOTALS	**297.00**	**611.02**	**2484.14**	**1371.27**	**4763.43**	**537.24**
% of Total	**6.2%**	**12.8%**	**52.2%**	**28.8%**		

NOTES: (1) Open drains designate earth drains used to channel irrigation spill water: lengths do not include deep interceptors, toe drains, tile drains or tile grid systems.
(2) Drains are not included in TOTALS.
(3) Total length differs from Table 5 due to recurrent rehabilitation.

IRRIGATION REHABILITATION PROGRAM
SUMMARY OF REHABILITATED LENGTHS
to JULY 31, 2008

TABLE 5

DISTRICT	TOTAL SYSTEMS REHABILITATED to JULY 31, 2007 (km)	2007/2008 REHABILITATION (km)	TOTAL to JULY 31, 2008 (km)
AID	15.07	0.00	15.07
BRID	777.65	4.12	781.77
EID	808.15	23.97	832.12
LID	49.99	0.00	49.99
LNID	514.30	0.00	514.30
MID	91.23	1.82	93.05
MVID	35.38	0.00	35.38
RID	210.19	5.62	215.81
RCID	25.85	0.00	25.85
SMRID	1190.57	14.47	1205.04
TID	341.39	6.86	348.25
UID	139.13	5.63	144.76
WID	288.85	21.49	310.34
TOTALS	**4487.75**	**83.98**	**4571.73**

NOTES:

(1) Lengths in AID, BRID, EID, LNID, SMRID, UID, & WID exclude Main Canals that were rehabilitated under Alberta Environment's Water Management Systems Improvement Program.

(2) Total Systems Rehabilitated for EID does not include Bank Rebuilding Projects constructed from 1977 to 1982.

(3) Total Systems Rehabilitated for WID does not include "TREE REMOVAL" Projects.

(4) Totals do not include drainage works.

(5) Totals do not include works rehabilitated by a district using its own funds.

(6) Total length differs from Table 4 due to recurrent rehabilitation.